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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/088,826	08/13/2002	Mark J. Pykett	C01005/70008 5264			
23628 75	23628 7590 06/29/2005			EXAMINER		
WOLF GREE	NFIELD & SACKS, PO	BELYAVSKYI, MICHAIL A				
FEDERAL RES		ART UNIT	PAPER NUMBER			
BOSTON, MA 02210-2211			1644			
		DATE MAILED: 06/29/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	No.	Applicant(s)				
Office Action Summary		10/088,826	·	PYKETT ET AL.				
		Examiner		Art Unit				
		Michail A. B	elyavskyi	1644				
Period fo	The MAILING DATE of this communication or Reply	n appears on the c	over sheet with the c	orrespondence ad	dress			
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR RIMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, operiod for reply is specified above, the maximum statutory pure to reply within the set or extended period for reply will, by streply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event on. a reply within the statuto eriod will apply and will a statute, cause the applica	, however, may a reply be timery ory minimum of thirty (30) days expire SIX (6) MONTHS from ation to become ABANDONEI	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).	y. ommunication.			
Status	•							
1)⊠	Responsive to communication(s) filed on 2	28 April 2005.						
•	2a)⊠ This action is FINAL . 2b)□ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	 Claim(s) 1-16,18-21 and 24 is/are pending in the application. 4a) Of the above claim(s) 4,6-8 and 21 is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-3, 5,9-16, 18-20 and 24 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement. 							
Applicat	ion Papers							
9)[The specification is objected to by the Exa	miner.			:			
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)□	Replacement drawing sheet(s) including the co The oath or declaration is objected to by the	•			• •			
Priority (under 35 U.S.C. § 119							
12) a)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Business the attached detailed Office action for a	ments have been ments have been priority documen ureau (PCT Rule	received. received in Application ts have been receive 17.2(a)).	on Noed in this National	Stage			
Attachmen			_					
	e of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
3) 🔲 Infor	e of Draftsperson's Patent Drawing Review (PTO-948 mation Disclosure Statement(s) (PTO-1449 or PTO/Sf r No(s)/Mail Date	B/08) 5		atent Application (PTC)-152)			

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RESPONSE TO APPLICANT'S AMENDMENT

1. Applicant's amendment, filed 04/28/05 is acknowledged.

Claims 1-16 and 18-21 and 24 are pending.

Claims 4,6-8 and 21 stand withdrawn from further consideration by the Examiner, 37 C.F.R. § 1.142(b) as being drawn to a nonelected invention.

In view of the amendment, filed 04.28.05 the following rejection remains:

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

3. Claims 1-3,5,9-16, 18-20 and 24 are rejected under 35 U.S.C. 102(a) as being anticipated by WO9915629 for the same reasons set forth in the previous Office Action, mailed on 01/25/05.

Applicant's arguments, filed 04/28/05 have been fully considered, but have not been found convincing.

Applicant asserts that WO'629 does not teach the use of bFGF for in vitro cultures but only teaches the use of bFGF for in vivo use.

Contrary to Applicant's assertion it is the Examiner position that WO' 629 teaches a method for *in vitro* culture of hematopoietic progenitor cells to produce differentiated cells of non-hematopoietic lineage (see entire document, Abstract in particular).

WO'629 teaches that said cells are cultured under condition that promote differentiation, using three dimensional porous matrix having a unitary microstructure having a percent of open space of at least 75% and having a diameter of pores at mid-point on average of less that 150 μ m (see page 5 lines 12 in particular). WO'629 teaches that porous solid matrix is a metal-coated wherein a metal is tantalum (see page 5, lines 10-25 in particular). WO' 629 teaches porous solid matrix having seeded hematopoietic progenitor cells wherein said cells is impregnated with a gelatinous agent that occupies pores of the matrix (see pages 8-9 in particular). WO' 629 teaches that hematopoietic progenitor cells are obtained from blood product wherein blood product is unfractionated bone marrow (see pages 5 and 26 in particular). WO' 629 teaches that hematopoietic progenitor cells areCd34+ or CD34 or can be isolated from nonnucleated cells or

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enriched for cells having a common marker (see examples 1-4 in particular). WO' 629 teaches that hematopoietic progenitor cells are cultures in the presence of various growth factor that promote differentiation such as bFGF (see pages 6 and 12 in particular). It is noted that WO' 629 teaches does not explicitly disclosed that under recited conditions hematopoietic progenitor cells would produce neuronal cells. However, the recited conditions, i.e. culturing hematopoietic progenitor cells in the environment comprising bFGF is the same condition as claimed (see instant claim 5 in particular). Thus a method taught by WO' 629 would inherently result in producing neuronal cells. Under the principles of inherency, if a prior art method, in its normal and usual operation, would necessarily perform the method claimed, then the method claimed will be considered to be anticipated by the prior art. When the prior art method is the same as a method described in the specification, i.e. culturing hematopoietic progenitor cells in an environment comprising three dimensional porous matrix and comprising growth factor bFGF, it can be assumed the method will inherently perform the claimed process, i.e produce neuronal cells. See MPEP 2112.02. Also, see Bristol-Myers Squibb Co. v. Ben Venue Laboratories, Inc. 58 USPQ2d 1508 (CA FC 2001); Ex parte Novitski 26 USPQ 1389 (BPAI 1993); Mehl/Biophile International Corp. V. Milgraum, 52 USPQ2d 1303 (Fed. Cir. 1999); Atlas Powder Co. V. IRECO, 51 USPQ2d 1943 (Fed. Cir. 1999)

The reference teaching anticipates the claimed invention.

- 4. No claim is allowed.
- 5. THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michail Belyavskyi whose telephone number is 571/272-0840 The examiner can normally be reached Monday through Friday from 9:00 AM to 5:30 PM. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on 571/272-0841.

The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michail Belyavskyi, Ph.D. Patent Examiner Technology Center 1600 June 18, 2005

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600